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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/735,291	12/12/2003	Jean Cotteret	LORE:009US	9949	
7590 11/17/2004			EXAMINER		
Mark B. Wilson Fulbright & Jaworski L.L.P.			ELHILO, EISA B		
Suite 2400		•	ART UNIT	PAPER NUMBER	
600 Congress Avenue Austin, TX 78701			1751		
			DATE MAILED: 11/17/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applic	cation No.	Applicant(s)				
Office Action Summary			5,291	COTTERET ET AL.	H			
			ner	Art Unit				
	-	Eisa B		1751				
	The MAILING DATE of this communication	l l			;			
Period f	or Reply							
THE - Exte afte - If th - If No - Fail Any	IORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNIC ensions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commu- e period for reply specified above is less than thirty (30 operiod for reply is specified above, the maximum statu- ure to reply within the set or extended period for reply reply received by the Office later than three months af- ted patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In numication. unication. otherwish the cutory period will apply ar utory period will apply ar util, by statute, cause the	o event, however, may a reply be statutory minimum of thirty (30) d nd will expire SIX (6) MONTHS fro application to become ABANDON	timely filed ays will be considered timely. om the mailing date of this communi NED (35 U.S.C. & 133).	cation.			
Status								
1)⊠	Responsive to communication(s) filed	d on <i>12 Decembe</i>	r 2003					
2a)□	This action is FINAL . 2b)⊠ This action is non-final.							
3)□	, <u> </u>							
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□ 6)⊠	Claim(s) <u>1-48</u> is/are pending in the ap 4a) Of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) <u>1-8,10,11 and 22-48</u> is/are r	e withdrawn from	consideration.					
	Claim(s) 9 and 12-21 is/are objected							
8)	Claim(s) are subject to restrict	ion and/or electio	n requirement.					
Applicat	ion Papers							
9)[]	The specification is objected to by the	Examiner.		•				
10)[The drawing(s) filed on is/are:	a)∏ accepted or	b) objected to by the	Examiner.				
	Applicant may not request that any object	ion to the drawing(s) be held in abeyance. S	ee 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including t							
11)∐	The oath or declaration is objected to	by the Examiner.	Note the attached Office	e Action or form PTO-15	2.			
Priority (ınder 35 U.S.C. § 119							
	Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority decreased as Copies of the priority decreased as Copies of the certified copies of application from the Internation	ocuments have b ocuments have b f the priority docu	een received. een received in Applica ments have been receiv	tion No				
* 5	See the attached detailed Office action	for a list of the ce	ertified copies not receiv	red.				
A441	<i>u</i> ->							
Attachmen 1) 🔯 Notic	t(s) e of References Cited (PTO-892)		() []]-t::	·· (DTO 442)				
2) 🔲 Notic 3) 🔯 Inforr	e of Draftsperson's Patent Drawing Review (PT nation Disclosure Statement(s) (PTO-1449 or P r No(s)/Mail Date <u>6/24/2004</u> .		4) Interview Summar Paper No(s)/Mail [5) Notice of Informal 6) Other:					

Application/Control Number: 10/735,291

Art Unit: 1751

Claims 1-48 are pending in this application.

DETAILED ACTION

Examiner position

The examiner makes of record that instant claim 33 recites a broad range of percentage followed by a narrow range. For examination purposes, the examiner asserts that the narrow range recited in the instant claim 33 is merely exemplary range, and thus, the prior art will be applied against the broadest range recited in the instant claim 33. Further, the examiner suggests that applicant should delete the narrow range from the instant claim 33, and add new dependent claim that recite the narrow percentage range recited in the instant claim 33.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-8, 10-11 and 22-48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Laurent et al. (US 2002/0046431 A1) in view of Lim et al. (US 6,461,391 B1) and further in view of Murakami (US 2003/0145395 A1).

Laurent et al. (US' 431 A1) teaches a hair dyeing composition comprising oxidation bases such as para-phenylenediamine compounds represented by a formula (1), in which R1 and R2 form together with the nitrogen to which they attached a 5- or 6-membered nitrogen-containing heterocyclic ring (see page. 10, formula (1) and page 12, paragraph, 0270) and wherein the composition further comprises vitamins and provitamins such as panthenol (see page

Application/Control Number: 10/735,291

Art Unit: 1751

21, paragraph, 0466), cationic polymers as claimed in claim 36 (see page 17, paragraph, 0393), thickeners and surfactants as claimed in claims 37-38 (see page 21, paragraph, 0466), other oxidation bases such as para-aminophenol as claimed in claim 39 (see page 12, formula (III)), wherein the oxidation bases are presented in the amount of 0.0005% to 12% which is within the claimed range as claimed in claim 40 (see page 13, paragraph, 0312), couplers such as 1,3-dihydroxybenzene (meta-diphenol) in the amount of 0.005 to 5% as claimed in claims 41-43 (see page 13, paragraph, 0314), direct dyes as claimed in claim 44 (see page 13, paragraph, 0317), hydroxylated solvents such as ethanol as claimed in claim 45 (see page 10, paragraph, 0254), oxidizing agents such as hydrogen peroxide as claimed in claim 46 (see page 21, paragraph, 0469). Laurent et al. also teaches a similar process for dyeing hair comprising applying to the hair the dyeing composition as described above and wherein the process is similar to those as claimed in claim 47 (see page 22, paragraph, 0477). Laurent et al. further, teaches multi-compartment devices for dyeing hair, which are similar to those, claimed in claim 48 (see page 27, claim 66).

The claims differ from the reference by reciting cationic tertiary para-phenylenediaines and as oxidation bases and vitamin derivatives chosen from specific species.

Lim et al. (US' 391 B1) in analogous art of hair dyeing formulation, teaches a composition comprising oxidation base of cationic tertiary para-phenylenediamine having a formula (1), which is similar to the claimed formula (1), when in the reference formula (1), R, R1 and R2 are alkyl radicals, R4 is hydrogen atom or an alkyl radical and R5 is a hydrogen atom (see col. 2, lines 44-50) and when in the claimed formula (1), R2 represents the onion radical Z of the claimed formula (II), R3 is a hydrogen atom, n is 1 or 0 and R1 is an alkyl radical. The

Application/Control Number: 10/735,291

Art Unit: 1751

cationic tertiary para-phenylenediamine is represented in the amount of 0.01 to about 5.0%, which is within the claimed range as claimed in claim 33 (see col. 3, lines 43-46). Lim et al. further, teaches the compounds 1-(4-aminophenyl)-N,N-dimethyl-N-pentylpyrolidin-3-ammoinum iodide and 1-(4-aminophenyl)-N-(2-hydroxyethyl)-N,N-dimethylpyrrolidin-3-ammonium iodide which are structurally similar to the claimed compounds as claimed in claims 22-26 (see col. 19, Example 22 (compound 7) and col. 26, Example 29 (compound 14).

Murakami (US' 395 A1) in other analogous art of hair dyeing formulation, teaches a composition comprising vitamins such as vitamin B group, nicotinic acids, pantothenic acids and tocopherol as claimed in claims 1, 27 and 30-31 (see page 6, paragraph, 0086).

Therefore, in view of the teachings of the secondary references, one having ordinary skill in the art at the time the invention was made would be motivated to formulate such a dyeing composition by substituting the heterocyclic para-phenylenediamine oxidation base of Laurent et al. by the cationic tertiary para-phenylenediaines as taught by Lim et al. and to incorporate the vitamin B group, nicotinic acids and pantothenic acids as taught by Murakami et al. in the composition of Laurent et al, with a reasonable expectation of success. Such a modification would be obvious because Laurent et al. as a primary reference discloses the genus of para-phenylenediamine compounds as oxidation bases and vitamins in the dyeing composition. Lim et al. as a secondary reference clearly teaches that the quaternized pyrrolidine compounds are suitable primary intermediates for hair coloring compositions for providing good oxidative coloration of hair such as light fastness, fastness to shampooing, fastness to permanent wave treatment and suitable for providing a wide variety of different color shades with various primary intermediate and coupler compounds (see col. 2, lines 13-20). Murakami et al. as a secondary

Art Unit: 1751

reference teaches that various components commonly used in hair care products and vitamins are among those components (see page 6, paragraph, 0081), and, thus, a person of the ordinary skill in the art would be motivated to substitute para-phenylenediamine oxidation bases of Laurent et al. by the cationic tertiary para-phenylenediaines of Lim et al. for providing good oxidation coloring of hair and to incorporate the vitamins of Murakami et al. as common vitamins that used in the hair treating formulation, and would expect such a composition to have similar properties to those claimed, absent unexpected results.

With respect to claims 28-29 and 34-35, it would have been obvious to one having ordinary skill in the art at the time of the invention to formulate a dyeing composition comprising vitamin E and to optimize the amounts of the vitamins in the composition because Laurent et al. teaches effective amounts of agents conventionally used in oxidation dyeing and the vitamins are among these agents (see page 21, paragraph, 0466). Murakami et al. as a secondary reference also teaches that vitamins are commonly used in the hair dyeing composition (see page 6, paragraph, 0081), and thus, a person of the ordinary skill in the art would be motivated to optimize the amounts of the vitamins in the composition in order to get the maximum effective amounts of these vitamins and would expect that all vitamins should have similar properties no matter which one is being used in the composition including the claimed species and would expect such a composition to have similar properties in the absence of contrary.

Allowable Subject Matter

Claims 9 and 12-21 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The prior art of record do not teach or disclose cationic para-

Art Unit: 1751

phenylenedimanie compounds of the claimed formula (II), in which x is equal 1, the prior art of record also do not teach or disclose para-phenylenedimanie compounds of the claimed formulae (III) and (IV).

Conclusion

The references listed on from 1449 have been reviewed by the examiner and are considered to be cumulative to or less material than the prior art references relied upon in the rejection above.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eisa B Elhilo whose telephone number is (571) 272-1315. The examiner can normally be reached on M - F (8:00 -5:30) with alternate Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yogendra Gupta can be reached on (571) 272-1316. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Eisa Elhilo Patent Examiner

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Art Unit 1751

November 9, 2004